

L 08578-67  
ACC NR: AP6033492

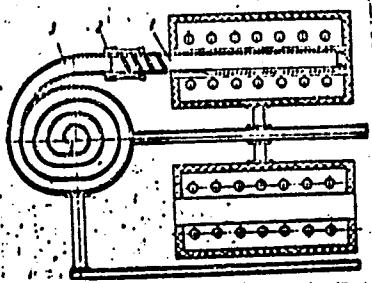


Fig. 1. Shock tube

1 - Test section; 2 - membrane;  
3 - section for initiating det-  
onation.

SUB CODE: 21/ SUBM DATE: 08Jun65

111  
Conti 2/2

ACC NR: FSS-2/EWT(1)/EWP(m)/EVT(m)/EWD(1)/T/FCS(1) EWA(s)/ETC(m)/EZA(1)  
 AP5026062 RPL WW/JW/WE/RM SOURCE CODE: UR/0405/65/000/002/0012/0021  
 AUTHOR: Gordeyev, V. Ye.; Serbinov, A. I.; Troshin, Ya. K.; Filatov, G. I. (Deceased)  
 RG: none  
 TITLE: Initiation of the explosive conversion of condensed explosives by gaseous  
 detonation  
 SOURCE: Nauchno-tehnicheskiye problemy goreniya i vzryva, no. 2, 1965, 12-21  
 B  
 JC TAGS: 1, 5, 5 gaseous detonation, liquid explosive, 55, tetrinitromethane, benzene,  
 propane, oxygen, ignition delay, detonation wave, detonation velocity  
 PRACT: Initiation of the detonation<sup>1</sup> of a tetrinitromethane<sup>2</sup>-benzene mixture (1.5:1  
 volume) was studied photo-  
 graphically using an experimental setup consisting of a thick-wall steel pipe with a  
 external diameter and a 10-mm internal diameter. The steel pipe was equipped  
 with an electric detonator and was filled with the gaseous mixture. The plexiglas  
 was filled with the liquid (or solid) explosive. The initial gas mixture pres-  
 sure of  $p_0 > 2$  atm abs. Detonation occurred only at the initial gaseous mixture  
 pressure of  $p_0 > 2$  atm abs. The liquid explosion delay time  $\tau$  decreased from 350 to  
 as the initial pressure in the gaseous mixture increased from 2 to 12 atm

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L 9555-66  
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abs. At pressures of 24 atm abs., the ignition delay practically disappears, i.e., the explosive ignites instantly on contact with the gaseous detonation wave. Transition of accelerating combustion into detonation of the explosive occurred within 30 usec after ignition. A stoichiometric tetranitromethane-benzene mixture (4:1) is even more sensitive to the gaseous detonation; it is detonated at  $P_0 > 0.66$  atm abs. with a delay time of 70 usec. The change in the ignition delay is attributed to the difference in the surface temperature of the explosive  $T_s$ . The delay time was measured at various temperatures and the experimental data were used to calculate  $T_s$ , which vary between 712 and 841K, depending on  $i$ . The same values of  $T_s$  (about 800K) were also obtained by a different method, which takes into account thermal conductivity, specific heats, and densities of the components of the gaseous mixture and of the combustion products. At the initial gas mixture pressure below 60 atm abs., the detonation velocities in both gases (about 2300 m/sec) and in the liquid explosive (6850 m/sec) are practically independent of pressure. Orig. art. has: 5 tables, 2 figures, and 4 formulas. [PS]

SUB CODE: FP/ SUBM DATE: 30Nov64/ ORIG REF: 016/ OTH REF: 001/ ATD PRESS:  
4151

KOMOV, V.F.; TROSHIN, Ya.K.

Structure and detonation mechanism of heterogeneous systems.  
Dokl. AN SSSR 162 no.1:133-135 My '65. (MIRA 18:5)

1. Institut khimicheskoy fiziki AN SSSR. Submitted November 21,  
1964.

GORDEYEV, V.Ye.; KOMOV, V.F.; SERBINOV, A.I.; TROSHIN, Ya.K.

Explosions in piston-type air compressors and main lines.  
Prom. energ. 19 no.12:24-29 D '64.

(MIRA 18:3)

I. Institut khimicheskoy fiziki AN SSSR.

GORDEYEV, V.Ye.; KOMOV, V F.; TROSHIN, Ya.K.

Detonation burning of heterogeneous sys ems. Dokl. AN SSSR 160  
no.4:853-856 F '65. (MIRA 18:2)

I. Institut khimicheskoy fiziki AN SSSR. Submitted July 24, 1964.

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CIA-RDP86-00513R001756730003-9"

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"APPROVED FOR RELEASE: 03/14/2001

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APPROVED FOR RELEASE: 03/14/2001

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SOURCE: AN SSSR. Doklady v 160, no 4 1965. R52-856

TOPIC: explosion, detonation, fuel line, safety hazard

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9"

AM4036542

## BOOK EXPLOITATION

S/

Shchelkin, Kirill Ivanovich; Troshin, Yakov Kirillovich

Gas dynamics of combustion (Gazodinamika goreniya). Moscow, Izd-vo AN SSSR, 1963. 254 p. illus., biblio., plates. Errata slip inserted. 3000 copies printed.

TOPIC TAGS: gas detonation, gas explosion, gas combustion, rocket engine, jet engine, gas deflagration, Hugoniot curve, combustion chamber, flame acceleration

PURPOSE AND COVERAGE: This book is intended for scientific workers and engineers interested in the combustion and detonation of gases, and for students specializing in the physics and dynamics of gas combustion. It may also be of interest to scientific workers, engineers, and specialists in jet and rocket engines. The book was written on the basis of the authors' research work from 1953 to 1962 at the Institute of Chemical Physics, Academy of Sciences SSSR. The classical theory of combustion and detonation necessary for the understanding of new materials is presented. Works of other Soviet

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AM4036542

and non-Soviet authors in this field are cited. The book contains 181 diagrams and photos.

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Ch. I. Detonation -- 13
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3. Kinetics of the chemical reaction and the instability of the plane ignition front in detonation -- 26
4. Gas dynamics of inhomogeneity in the detonation front -- 32
5. Pulsating detonation (experimental facts) -- 44
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7. Nonuniformities and time of chemical reactions. Detonation limits -- 53
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Card 2/2

SHCHELKIN, Kirill Ivanovich; TROSHIN, Yakov Kirillovich;  
SEMELEV, N.N., akademik, otv. red.; YASTREBOV, V.V.,  
red.; MAKAGONOVA, I.A., tekhn. red.; POLYAKOVA, T.V., tekhn. red.

[Gas dynamics of combustion] Gazodinamika gorenija. Mo-  
skva, Izd-vo AN SSSR, 1963. 254 p. (MIRA 17:1)

SERBINOV, A.I.; TROSHIN, Ya.K.; SHCHELKIN, K.I.

Kinetic parameters of the processes of detonation, spontaneous ignition, and isothermal oxidation of benzene. Dokl.AN SSSR 145 no.6:1314-1317 Ag '62. (MIRA 15:8)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shchelkin).  
(Benzene) (Combustion)

TROSHIN, Yu.P.; TROSHINA, G.M.

Stability of the geochemical processes of the distribution of  
trace elements in the formation of complex metal deposits.  
Geokhimiia no.1:68-72 Ja '65. (MIRA 18:4)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR, Irkutsk.

TROSHIN, Yu.P.

Theory of the zonal distribution of impurity elements in hydrocarbons  
in celestial bodies. Dokl. AN SSSR 162 no.5:1159-1161 Je '65. (MIRA 1457)

1. Submitted March 4, 1965.

TROSHIN, Yu.P.

Ratio between gallium and indium in sphalerites of Transbaikalia.  
Geokhimiia no.4:330-336 '62. (MIRA 16:7)

I. Institute of Geochemistry of the Siberian Branch of the  
Academy of Sciences, U.S.S.R., Irkutsk.  
(Transbaikalia--Gallium) (Transbaikalia--Indium)

TROCHINA, A.P.; POLYAKOVA, E.I.; VOL'FKOVICH, S.I., akademik

Iekin's marginal notes on Academician V.N.Ipat'ev's work "The  
necessity of establishing the manufacture of electrodes from  
Turukhanek graphite." Vest. AN SSSR 35 no.7:104-110 Jl 165.  
(MIRA 1812)

YEGOROV, K.D., kand.ekon.nauk; TROSHINA, A.P.; KOVALEV, P.P.; NOVIKOVA, A.A.; LAGUTINA, M.V.; VOLNINA, N.A.; SHESTAKOVA, R.V.; AKIMCHENKO, O.Ye.; KULEBAKIN, V.S., akademik, red.; VEITS, V.I., red.; BUTENKO, A.F., kand.filosof.nauk, red.; RYBINSKIY, M.I., red.; CHASHNIKOVA, M.V., red.; NIZHNYAYA, S., red.; VOSKRESENSKAYA, T., red.; CHEKHUTOVA, V., red.; RKLITSKAYA, A.D., red.; CHEPELEVA, O.. tekhn.red.

[Works of the State Commission for the Electrification of Russia;  
documents and materials] Trudy Gosudarstvennoi komissii po elektrifikatsii Rossii GOELRO; dokumenty i materialy. Red.komissii:  
V.S.Kulebakin and others. Moskva, Izd-vo sotsial'no-ekon.lit-ry,  
1960. 306 p. (MIRA 14:2)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennaya komissiya po  
elektrifikatsii Rossii. 2. Chlen-korrespondent AN SSSR (for Veyts).  
(Electrification)

MAYSTRENKO, O.I.; TROSHINA, A.V.

Variation and inheritance of gluten content and quality in the seed  
following intraspecific hybridization of *Triticum aestivum* L. Dokl.  
AN SSSR 163 no.1:227-230 Jl '65. (MIRA 18:7)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR.  
Submitted October 15, 1964.

KUDRIN, A.N., prof.; KAZBERYUK, N.A.; NIKULIN, A.A.; POLYAKOVA,  
N.B.; TROSHINA, A.Ye.; USPENSKIY, V.A.

[Prescription manual] Spravochnik po retsepture; uchebnoe po-  
sobie. Riazan', Riazanskii med. in-t, 1962. 265 p.  
(MIRA 16:12)

(PRESCRIPTION WRITING)

ZAYTSEV, V. P.; NIKULIN, A. A.; POLYAKOVA, N. B.; SUSNINA, I. V.;  
TROSHINA, A. Ye.; UZBEKOVA, D. .; USPENSKIY, V. A.

Proper utilization of medicaments is one of the basic conditions  
for the further improvement of medical attendance for the popula-  
tion. Zdrav. Ros. Feder. 6 no.8:13-17 Ag '62.  
(MIRA 15:7)

1. Iz Ryazanskogo oblastnogo aptekoupravleniya (upravlyayushchiy  
V. P. Zaytsev) i kafedry farmakologii (zav. - dotsent A. A.  
Nikulin) Ryazanskogo meditsinskogo instituta imeni akademika  
I. P. Pavlova.

(DRUGS) (MEDICAL CARE)

TROSHINA, A. Ye.

TROSHINA, A. Ye. -- "The Effect of Protracted Use of Barbamil on Carbo-hydrate Metabolism and the Biological Currents of the Brain." Min Health RSFSR. Moscow Medical Stomatological Inst. Ryazan', 1956. (Dissertation for the Degree of Candidate in Medical Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

TROSHINA, A.Ye.

NIKULIN, A.A.; NIZOV, A.A.; TROSHINA, A.Ye.; NIKULINA, N.B.

"Prescription manual" edited by P.V.Rodionov. Reviewed by A.A.  
Nikulin and others. Sov.med. 21 no.3:154-157 M<sup>ay</sup> '57. (MLRA 10:7)  
(MEDICINE--FORMULAS, RECEIPTS, PRESCRIPTIONS)

TROSHINA, A.Ye

Reactivity of the cerebral vessels in rabbits with experimental  
atherosclerosis to adrenalin, acetylcholine, and histamines. Farm.i  
toks. 23 no.3:250-254 My-Je '60. (MIRA 14:3)

11 Kafedra farmakologii (zav. - prof. A.N.Kudrin) Ryazanskogo  
meditsinskogo instituta imeni akademika I.P.Pavlova.  
(BRAIN-BLOOD SUPPLY) (ARTERIOSCLEROSIS)  
(EPINEPHRINE) (VASOMOTOR DRUGS)

KUDRIN, A.N.; KOST, A.N.; YERSHOV, V.V.; TROSHINA, A.Ye.; POLYAKOVA, N.B.;  
USPENSKIY, V.A.; TERENT'YEV, P.B.; YAKOVLEVA, I.A.

Pharmacology of new  $\beta$ -dialkylamino ketones. Farm. i toks. 25 no.4:  
(MIRA 17:10)  
437-444 Jl-Ag '62.

1. Kafedra farmakologii (zav. - prof. A.N. Kudrin) Ryazanskogo  
meditsinskogo instituta imeni Pavlova i laboratoriya spetsial'-  
nogo organicheskogo sinteza (zav. - chlen-korrespondent AN SSSR  
A.P. Terent'yev) Moskovskogo gosudarstvennogo universiteta imeni  
Lomonosova.

KUZNETSOV, Yu.A.; MAKAROV, A.A.; MELENT'YEV, L.A.; MERENKOV, A.P.; NEKRASOV, A.S.; TSVETKOV, N.I.; KUZNETSOV, Yu.A.; MAKAROVA, A.S.; KARPOV, V.G.; MANSUROV, Yu.V.; SYROV, Yu.P.; KHRILEV, L.S.; TSVETKOVA, L.A.; VOYTSEKHOVSKAYA, G.V.; YEFIMOV, N.T.; LEVENTAL', G.B.; KHANAYEV, V.A.; BEIYAYEV, L.S.; GAMM, A.Z.; KARTELEV, B.G.; KRUMM, L.A.; LIOPO, T.N.; SVIRKUNOV, N.N.; DRUZHININ, I.P.; KONOVALENKO, Z.P.; KHAM'YANOVA, N.V.; SHVARTSBERG, A.I.; NIKONOV, A.P.; STARIKOV, L.A.; POPYRIN, L.S.; PSHENICHNOV, N.N.; TROSHINA, G.M.; CHEL'TSOV, M.B.; SVETLOV, K.S.; SUMAROKOV, S.V.; TAKAYSHVILI, M.K.; TOLMACHEVA, N.I.; KHASILEV, V.Ya.; KOSHELEV, A.A.; KUDINOVA, L.I., red.

[Methods for using electronic computers in the optimization of power engineering calculations] Metody primeneniia elektronno-vychislitel'nykh mashin pri optimizatsii energeticheskikh raschetov. Moskva, Nauka, 1964. 318 p.  
(MIRA 17:11)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Energeticheskiy institut. 2. Chlen-korrespondent AN SSSR (for Melent'yev).

TROSHIN, Yu.P.; TROSHINA, G.M.

Stability of the geochemical processes of the distribution of  
trace elements in the formation of complex metal deposits.  
Geokhimia no.1:68-72 Ja '65. (MIRA 18:4)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR, Irkutsk.

GOMEL'SKAYA, G.L.; KOSAGOVSKIY, I.V.; LAVROVA, I.G.; RODOV, Ya.I.;  
SOBOLEVSKIY, G.N.; TROSHINA, I.M.; FERSHTUDT, V.I.;  
SHTRAUS, Z.E.; MEL'NIKOV, Ye.B., red.

[Problems for practical work on the organization of public  
health] Zadaniia k prakticheskim zaniatiiam po organizatsii  
zdravookhraneniia. Izd.2., ispr. i dop. Moskva, 1963. 167 p.  
(MIRA 16:12)

1. Moscow. Pervyy meditsinskiy institut. Kafedra organizatsii  
zdravookhraneniya. 2. Kafedra organizatsii zdravookhraneniya  
Pervogo moskovskogo meditsinskogo instituta (for all except  
Mel'nikov).

(PUBLIC HEALTH--HANDBOOKS, MANUALS, ETC.)

RODOV, Ya.I.; KOSAGOVSKIY, I.V.; GOMEL'SKAYA, G.L.; LAVROVA, I.T.;  
SOBOLEVSKIY, G.N.; SHTRAUS, Z.E.; TROSHINA, I.M.; FERSHTUDT, V.I.

"Theory and organization of the Soviet public health system"  
by G.A. Batkis and L.G. Lekarev. Reviewed by IA.I. Rodov and  
others. Zdrav. Ros. Feder. 6 no.4:41-42 Ap '62.  
(PUBLIC HEALTH) (BATKIS, G.A.) (MIRA 15:4)  
(LEKAREV, L.G.)

KLYUKVINA, Yu.V.; TROSHINA, K.A.

Rapid method for determining the protein content of seeds  
using Orange G. Agrobiologiya no.3:464-466 My-Je '65.  
(MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut  
zernobobovykh kul'tur, g. Orel.

GORCHAKOV, A.K., zasluzhenyy deyatel' nauki, professor; PARKHOMENKO, V.N.,  
kandidat meditsinskikh nauk; TROSHINA, L.N.

Radioautography in euthyroid forms of goiter. Vrach.delo no.5:  
497-499 My '57. (MLRA 10:8)

1. Kafedra khirurgii (zav. - zasl. deyatel' nauki, prof. A.K.  
Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo  
instituta  
(GOITER) (AUTORADIOGRAPHY)

TROSHINA, L.N., kand.med.nauk; LIMANSKIY, M.Ye., kand.med.nauk

Development of advanced medical education in the U.S.S.R. Vrach.  
delo no.1:73-77 Ja '58. (MIRA 11:3)

1. Kafedra khirurgii (zav.-zasl.deyatel' nauki, prof. A.K.Gorchakov)  
stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta  
i Ukrainskiy nauchno-issledovatel'skiy institut tuberkuleza.  
(MEDICINE--STUDY AND TEACHING)

GORCHAKOV, A.K., prof., zasluzhennyy deyatel' nauki; TROSHINA, L.N., kand.  
med. nauk.

In vivo radioautography in diseases of the thyroid gland. Vrach. delo  
no. 4:397-399 Ap '59. (MIRA 12:7)

1. Kafedra khirurgii (zav. - zasluzhennyy deyatel' nauki, prof. A.K.  
Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo  
instituta.

(THYROID GLAND--DISEASES) (IODINE)  
(AUTORADIOGRAPHY)

3(5)

SOV/20-128-2-40/59

AUTHORS: Lapina, N. N., Troshina, M. K.

TITLE: The Carboniferous of the North of the Bol'shezemel'skaya Tundra

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 2, pp 366-368  
(USSR)

ABSTRACT: The occurrence of considerably bituminous rocks in Upper Devonian and Lower Carboniferous strata was detected first by G. A. Chernov (Ref 1) in 1940, then by D. K. Aleksandrov (1941), as well as by B. I. Tarbayev and V. A. Urman (1954) in the region of Sin'kin Nos on the Talata river east of the aforementioned tundra. A strong bitumen smell and bitumen inclusions were characteristic of the petroleum manifestations. The above exposure was investigated in 1958 by M. K. Trochina, and the fauna (foraminifers, anthozoans, brachiopods, gastropods) was collected in one layer after the other. Investigation of this fauna first suggested a new scheme on a biostratigraphic basis instead of on the hitherto lithological one. The Tournaisian stage is represented by carbonate rocks which on the whole are very similar to those of the Famennian. The lower boundary of the Tournaisian is therefore drawn only

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SOV/20-128-2-40/59

The Carboniferous of the North of the Bol'shezemel'skaya Tundra

with certain restrictions. The lower stage of the Lower Tournaisian is represented by alternating light- and yellowish-grey, fine- and medium-grained limestones and dark-grey, fine-stratified dolomites. An impact causes a slight smell of  $H_2S$  and of light petroleum fractions.

The fauna was determined by L. P. Grozdilova, N. S. Lebedeva, and A. V. Durkina. The lower stage is 120 m thick. Upper Tournaisian lower stage. The fauna is bound here to the upper part. The anthozoans were determined by Yu. N. Rogozov. Bitumens are found in strongly cleft calcareous layer. The lower stage is 100 m, the entire Tournaisian stage 220 m thick. The Viséan stage is 230-235 m thick. The sediments of the Tul'sko-Aleksinskiy complex belonging to this stage rest without any visible interruption upon the above lower stage (thickness 110-115 m). The upper boundary of the Aleksinskiy horizon is drawn at the interfaces between the crystalline limestones (without macrofauna) and an organogenic-clastic silicified limestone of the Mikhaylovskiy horizon. The

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SOV/20-128-2-40/59

The Carboniferous of the North of the Bol'shezemel'skaya Tundra

rocks have a slight petroleum smell. Mikhaylovskiy horizon (80 m) has its upper boundary in the roof of a massive limestone (3 m thick) with flint. The Venevskiy horizon (40 m) has abundant fauna. Bitumens are found in the shells and cavities of the limestone. Serpukhovskiy lower stage (70 m). Their topmost layers which correspond to the Protvinskiy horizon are sugar-like, coarse-grained limestones which occur north-west of the Talata river and on the coast of the Barents Sea. No fauna was found in them. They are separated from the exposures of the underlying limestones by an interruption 40 m thick which is covered with grass. The latter contain fauna. The cross section investigated here is thus extremely similar to those of the Lower Carboniferous of the Podmoskovny basin and North-Ural. Only the terrigenous mass between the Tournaisian and Visean of the Russian platform lacks here and is replaced by carbonate sediments which most probably belong to the Tul'skiy age. There is 1 Soviet reference.

Card 3/4

SOV/20-128-2-40/59

The Carboniferous of the North of the Bol'shezemel'skaya Tundra

ASSOCIATION: Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-razvedochnyy institut (All-Union Scientific Research Institute of Geological Petroleum Prospecting)

PRESENTED: May 4, 1959, by D. V. Nalivkin, Academician

SUBMITTED: April 29, 1959

Card 4/4

TROSHINA, M.M.

Toxicology of ethyl chloride. Toks. nov. prom. khim. veshch. no.6:  
45-55 '64. (MIRA 18:4)

KLINKOVSHTEYN, G.I., kand. tekhn. nauk.; AKSENOV, V.A., inzh.;  
SARKIS'YANTS, E.G., inzh.; SHUMOV, A.V., inzh.;  
MANUSADZHYANTS, Zh.G., inzh.; TROSHINA, M.Ya., inzh.;  
STETSYUK, L.S., inzh.; PARSHIN, M.A., inzh.; KARPINSKAYA,  
I.M., inzh.; FAL'KEVICH, B.S., doktor tekhn. nauk;  
ILARIONOV, V.A., kand. tekhn. nauk; POLTEV, M.K., inzh.;  
KOGAN, E.I., inzh.; CHIGARKO, G.T., inzh.; KONONOVA, V.S.,  
red.

[Traffic safety and safety measures in automotive transporta-  
tion] Bezopasnost' dvizheniya i tekhnika bezopasnosti na av-  
tomobil'nom transporte. Moskva, Transport, 1964. 74 p.  
(MIRA 18:1)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut avto-  
mobil'nogo transporta. 2. Moskovskiy avtomekhanicheskiy  
institut (for Fal'kevich). 3. Moskovskiy avtomobil'no-  
dorozhnyy institut imeni Molotova (for Ilarionov). 4. Vse-  
soyuznyy zaochnyy politekhnicheskiy institut (for Poltev).

1. TROSHINA, N. P.

2. USSR (600)

4. Greenhouses

7. Organize the construction of hotbeds and greenhouses on collective farms.  
Sad i og. no. 9, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

TROSHINA, N. P.

Gardening - Equipment and Supplies

Raise more seedlings in pots and plant boxes. Sad i og. No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

KUL'SKAYA, O.A. [Kul's'ka, O.A.]; TROSHKINA, O.B.

Possibility of the determination of the absolute age of Quaternary  
fossil bones using the fluorine method. Geol. zhur. 25 no.3:  
117-120 '65. (MIRA 18:11)

1. Institut geologicheskikh nauk AN UkrSSR.

KOZLOV, V.N.; TROSHINA, P.V.

Use of faolite for the manufacture of hydrolyzers for the  
production of alcohols by means of sulfuric acid hydration.  
Khim. prom. 41 no.5:386-387 My '65. (MIRA 18:6)

SHALAPENOK, Ye.S. [Shalapionak, E.S.]; TROSHINA, S.A. [Troshyna, S.A.]

Population dynamics and feeding habits of clover seed weevil. Vestsi Ak RSSR. Ser. biol. nav. no.2:95-100 '65.  
(MIRA 18:12)

GUSEVA, A.A., kand. tekhn. nauk dots.; TROSHINA, V., studentka; SHELKOVNIKOVA, M., studentka; MIROSHNICHENKO, A., studentka; BYKOVA, N., studentka

Comparative characteristics of the processes of welting and sewing the welt on an automatic single-process flat full-fashioned hose machine. Izv. vys. ucheb. zav.; tekhn. leg. prom. no. 4:124-137 '59.

1. Moskovskiy tekstil'nyy institut. Rekomendovana kafedroy tekhnologii trikotazha.  
(Hosiery) (Knitting machines)

KHOMYAKOV, K.G., KHOLLER, V.A., TROSHINA, V.A.

Specific Heat

Curves of true heat capacity of compounds in a magnesium-cadmium system. Vest. Mosk. un., 5, no. 6, 1950.

Monthly List of Russian Accessions, Library of Congress, November 1952, Unclassified.

TROSHKINA, V.A.; KUCHERENKO, L.A.; KHOMYAKOV, K.G.

Effect of small amounts of a third component on the properties  
of FeAl. Vest. Mosk. un. Ser. 2:Khim. 20 no.4:57-58 Jl-Ag '65.  
(MIRA 18:10)

1. Kafedra obshchey khimii Moskovskogo gosudarstvennogo uni-  
versiteta.

USHAKOV, B.P.; AVERBAKH, M.S.; SUZDAL'SKAYA, I.P.; TROSHINA, V.P.; CHEREPANOVA, T.N.

Parabiotic nature of physiological electrotonus. Fiziol. zh. SSSR 39  
no. 2:218-225 Mar-Apr 1953. (CLML 24:3)

1. Laboratory of Histophysiology of the Institute of Physiology imeni A. A.  
Ukhtomskiy, Leningrad State University imeni A. A. Zhdanov.

TROSHINA, V.P.

Eleventh scientific meeting of the Leningrad University (Section  
of Biological Sciences). Vest.Len.un. 10-no.10:123-124 0 '55.  
(Conditioned response) (MIRA 9:1)

TROSHINA, V. P.

TROSHINA, V. P.--"Functional Condition of Isolated Tissues Surviving at Near-Zero Temperature." Leningrad Order of Lenin State University imeni A. A. Zhdanov, Leningrad, 1956  
(Dissertation for the degree of candidate in Biological Sciences.)

KNIZHNAЯ LETOPIS  
No 41, October 1956

TROSHINA, V.P. (Leningrad, ul. Lenina, d.48, kv.22)

Some data on intensive granulation. Arkh.anat.gist. i embr. 33 no.4:  
69-74 O-D '56. (MLRA 10:4)

1. Iz laboratorii gistolofiziologii (zaveduyushchiy - chlen-korrespondent  
AN SSSR professor D.N.Nasonov) Fiziologicheskogo instituta im. akade-  
mika A.A.Ukhtomskogo Leningradskogo gosudarstvennogo ordena Lenina  
universiteta im. A.A.Zhdanova

(REGENERATION

intensive granulation of musc., relation to excitability)  
(MUSCLES, physiol.  
excitability, relation to intensiveness of granulation)

TROSHINA, V.P.; SHURM, V.A.

Effect of low temperatures on isolated epithelial cells on white mice and frogs. Biul.eksp.biol.med. 42 no.7:63-66 Jl '56. (MLRA 9:9)

1. Iz laboratori gistogramiologii (zav. - deyствител'nyy chlen AMN SSSR D.N.Nasonov) Fiziologicheskogo instituta imeni A.A.Ukhtomskogo i Leningradskogo ordena Lenina gosudarstvennogo universiteta imeni A.A. Zhdanova (rektor - chlen-korrespondent AN SSSR A.D.Aleksandrov) Predstavlena deyствител'nym chlenom AMN SSSR D.N.Nasonovym.

(EPITHELIUM, physiology,  
eff. of cold (Rus))  
(COLD, effects,  
on epithelium (Rus))

*Troshina, V.P.*

USSR/General Biology - Physical and Chemical Biology

B-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, No 9392

Author : Troshina, V.P.

Inst : Not Given

Title : Functional Condition of Isolated Tissues at Near Zero  
Temperatures

Orig Pub : Vestn. Leningr. un-ta, 1957, No 3, 111-120

Abstract : Quantitative indices of physiological changes in isolated tissues (extensor muscle, horny tissue of frog, and mouse cerebrum) stored at temperatures near zero were studied. Sorption capacity, excitability, and the granulation reaction were used as physiological indices. It was established that in isolated tissues stored at temperatures of 0 - 4°, the changes in sorption ability and excitability are varied in character. The author considers these variations as a phenomenon characteristic of responsive reactions in living systems generally. The periods of variations in sorption

Card : 1/2

SUZDAL'SKAIA, I.P., TROSHINA, V.P.,

Dmitrii Nikolaevich; an obituary. Izv.AN SSSR Ser.biol. no.3  
374-376 My-Je '58 (MIRA 11:6)  
(NANOSOV, DMITRII NIKOLAEVICH, 1895-1957)

TROSHINA, V.P.

"Ion mechanisms of basic nerve processes" by G.IU.Belitskii.  
Reviewed by V.P.Troshina. TSitologija 1 no.3:341-344 My-Je  
'59. (MIRA 12:10)  
(ELECTROPHYSIOLOGY) (NERVOUS SYSTEM) (BELITSKII, G.IU.)

SUZDAL'SKAYA, I.P.; TROSHINA, V.P.

Conference on the problem of the adaptation reactions and  
methods of raising the resistance of the organism to unfavor-  
able influences. TSitologija 1 no.3:347-351 My-Je '59.  
(MIRA 12:10)  
(ADAPTATION (BIOLOGY))

TROSHIN, A.S.; TROSHINA, V.P.

"Local reaction of the protoplasm and the spreading excitation"  
by D.N. Nanosov. Reviewed by A.S. Troshin, V.P. Troshina. Izv.  
AN SSSR. Ser.biol. no.2:317-319 Mr-Ap '60. (MIRA 13:6)  
(PROTOPLASM) (NANOSOV, D.N.)

TROSHINA, V.P.

Action of dilazol on frog muscle tissue. *TSitologiya*, 6 no.3:  
362-365 My-Je '64. (MIRA 18:9)

1. Laboratoriya fiziologii kletki Fiziologicheskogo instituta  
pri Leningradskom universitete.

TROSHINA, V.B.

Distribution of active precision bright red dye between the  
superior tissue and the medium. Tsitologiya 7 no. 4:562-  
66 41-46 165. (MIRA 18:9)

Laboratoriya fiziologii kletki Fiziologicheskogo instituta  
pri Leningradskom universitete.

TROCHINA, V.P.

Restoring effect of insulin on frog muscles. TSitologija 6 no.6:751-  
754 N-D '64. (MIRA 12:8)

I. laboratoriya fiziologii kletki Fiziologicheskogo instituta pri  
Leningradskom universitete.

TROSHINA, V.F., kand. biol. nauk

Prodromal phase of parabiosis. Nerv. sist.no. 4:55-57 '63  
(MIRA 18:1)

1. Fiziologicheskiy institut Leningradskogo universiteta.

TROSHINA, V.P.

Problems of cell physiology at the Leningrad conference dedicated to the 110th anniversary of N.E. Vvedenskii's birth.  
Tsitologiya 4 no.6:710-712 N-D'62 (MIRA 17:3)

TROSHINA, V.P.

Parabiotic currents of the sartorial muscle of the frog  
produced by the action of nonelectrolytes. Biofizika, 7  
no.2:184-192'62. (MIRA 16:8)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.  
Zhdanova.  
(MUSCLES) (ELECTROMYOGRAPHY)

TROSHINA, V.P.

Conference dedicated to the 110th anniversary of the birth of  
N.E. Vvedenskii. Vest. LGU 18 no.3:165-167 '63. (MIRA 16:2)  
(VVEDENSKIY, NIKOLAI EVGEN'EVICH, 1852-1922)  
(PHYSIOLOGY--CONGRESSES)

TROSHINA, Ye.S.

Features of the thawing of the glaciers on the Southern slope of Mount Elbrus. Inform.sbor. o rab. Geog. fak. Mosk. ges. un. po Mezhdunar. geofiz. gosu no.2:83-91 '58. (MIRA 15:10)  
(Elbrus, Mount—Glaciers)

TROSHINA, V.P.

Parabiotic currents of the frog sartorius caused by the action of  
nonelectrolytes. Trudy MOIP. Otd. biol. 9:218-223 '64.  
(MIRA 18:1)

1. Leningradskiy universitet.

L 11386-63

BDS

S/120/63/000/002/030/041

49

AUTHOR: Zelenskiy, K. F., Troshkin, I. A., and Tsukerman, V. A.

TITLE: A portable short-flash x-ray installation with pulsed transformers

10

PERIODICAL: Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2,  
140-144

TEXT: The article describes the design and construction of portable installations for generating 0.1 sec x-ray flashes by means of a circuit with pulsed transformers in the supply circuits of two-electrode x-ray tubes with needle-shaped anodes; the device was built in order to measure its operating characteristics and to find applications. Use of needle-shaped anodes made it possible to decrease the weight of a 150 kv installation to 6.5 kg, and the weight of a 250 kv installation to 10 kg. The instruments use KDS dry cells. The service life of the x-ray tubes used in these instrument is 5000 flashes; the x-ray intensity is constant to within ± 20 percent. Possible applications are suggested. There are eight figures.

SUBMITTED: March 10, 1962

Card 1/1 Ja/HB

TROSHKIN, I. S.

Wood

Popularize the use of knotted woods., Les. prom., 12, no. k, 1952

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED

PETROV, N.P., kand.tekhn.nauk; TROSHKIN, I.T., inzh.; SHAYHOV, N.N., inzh.;  
TYURIKHOV, S.H., inzh.

Modernization of PN00E-60 atmosphere preparation plants. Metalloved. i  
term. obr. met. no.2:45-48 J '61. (MIRA 14:3)

1. Moskovskiy tekhnologicheskiy institut i Mashinostroitel'nyy zavod  
Mosgorsovnarkhoza.  
(Metallurgical furnaces—Protective atmospheres)

PETROV, N.P., kand. tekhn. nauk; TROSHKIN, I.T., inzh.; FILIPPOV, A.P., inzh.

Heat treatment of 30KhGSA, 30KhGSNA, 38Kh<sub>3</sub>, and 40KhNVA steels  
in an endothermic atmosphere. Vest. mashinostr. 43 no.10:  
(MIRA 16:11)  
61-63 O '63.

PETROV, N.P., kand.tekhn.nauk; TROSHKIN, I.T., inzh.

Heat treatment of steel products in an exothermal with a high  
carbon potential. Metalloved. i term. obr. met. no.6:12-21  
Je '61. (MIRA 14:6)

1. Moskovskiy tekhnologicheskiy institut i Mashinostroitel'nyy  
zavod Masgorsovnarkhoza.  
(Steel—Heat treatment)

PETROV, N.P.; TROSHKIN, I.T.; FILIPPOV, A.P.

Bright hardening with heating in an endothermic atmosphere. Metallolved.  
i term. obr. met. no. 9:31-35 S '64. (MIRA 17:11)

SAZHIN, B.S.; TROSHKIN, O.A.

Means of intensifying the drying process of pastelike materials  
on belt-roll dryers. Zhur. VKHO 8 no.1:117-118 '63.

(MIRA 16:4)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov  
i krasiteley.

(Drying)

~~TROSHKIN, Ye.I., inzhener.~~

~~Device for locating hidden faults in cables. Torf.prom.34:36-37 '57.  
(MIRA 10:2)~~

1. ~~Torfopredpriyatiye Smolevichskoye.  
(Electric cables) (Electric instruments)~~

MIKHEYEV, Grigorij Fedorovich; TROSHKIN, Yu.S., red.

[Economic efficiency of using radioactive radiation and  
isotopes in the national economy of the U.S.S.R.] Ekono-  
micheskaja effektivnost' ispol'zovaniia radioaktivnykh  
izluchenii i izotopov v narodnom khoziaistve SSSR. Mo-  
skva, Atomizdat, 1964. 223 p. (MIRA 17:12)

AKIMOV, Yuriy Konstantinovich; TROSHKIN, Yu.S., red.; CHISTYAKOVA,  
K.S., tekhn. red.

[Scintillation methods for high-energy particle recording]  
Stsintilliatsionnye metody registratsii chasits bol'shikh  
energii. Moskva, Izd-vo Mosk. univ., 1963. 170 p.  
(MIRA 17:2)

TROSHKINA, M.

Close cooperation between mechanizers and collective farm workers.  
MTS 14 no.3:6-7 Mr '54. (MLRA 7:4)

1. Direktor Platnirovskoy mashino-traktornoy stantsii, Krasnodarskogo kraya.  
(Machine-tractor stations)

TROSHKIN, V., inzh.; GOMILKO, M. [Homylko, M.], inzh.

Spot welding of insertion pieces of reinforced concrete elements  
without cleaning the welded surfaces. Bud. mat. i konstr. 4  
no.2:53-54 Mr-Ap '62. (MIRA 15:9)  
(Precast concrete) (Electric welding)

a L 9787-66

ACC NR: AP5028476

SOURCE CODE: UR/0286/65/000/020/0058/0058

AUTHORS: Romman, Yu. R.; Biryukov, P. F.; Troshkin, V. I.

ORG: none

TITLE: Loading and unloading rig for trucks. Class 35, No. 175628

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 58

TOPIC TAGS: material handling, hydraulic device, pump

ABSTRACT: This Author Certificate presents a loading-unloading rig for trucks as per Author Certificate No. 127796. To perform the loading-unloading operations, a hydraulic roller-type winch located under the truck platform is used (see Fig. 1). This winch is powered by a hydraulic system with a pump driven by the engine

Card 1/2

UDC: 629.114.4:621.869.462-875.56

L 9787-66

ACC NR: AP5028476

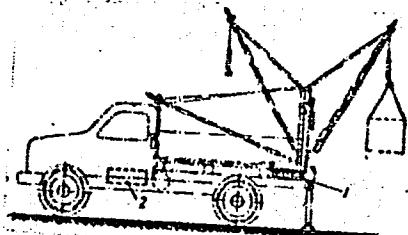


Fig. 1. 1 - Hydraulic roller  
winch; 2 - hydraulic system.

drive shaft. Orig. art. has: 1 figure.

SUB CODE: 13/

SUBM DATE: 23Aug62

OC  
Card 2/2

ANTONOVA, Iya Aleksandrovna; GONCHAROVA, Nataliya Georgiyevna;  
TULINOVA, Nataliya Ivanovna; TROSHKIN, Yu. S., red.

[Laboratory manual on nuclear physics] Praktikum po  
iaternoi fizike. Moskva, Mosk. univ., 1965. 134 p.  
(MIRA 18:12)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9"

series, trypsin solutions were X-irradiated with a  $2 \times 1\text{v}^2$  r dose,  
kept in ice water for 3 hrs, lyophilized, and analyzed by EPR. In

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9

Card 7/3

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9"

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9

YACHT KYNNE V/A

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756730003-9"

7(0), 24(8)

AUTHORS:

Tret'yakov, Yu. D., Troshkina, V. A., Khomyakov, K. G.

SOV/78-4-1-2/48

TITLE:

An Adiabatic Calorimeter Operating on the Principle of Continuous Heating (Adiabaticheskiy kalorimetr, rabotayushchiy po printsipu nepreryvnogo nagreva)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, pp 5-12  
(USSR)

ABSTRACT:

In order to investigate the structural change in magnetic alloys by the heat capacity method a new adiabatic calorimeter was constructed. The device is described in detail and the diagram shown in figures 1 and 2. The thermo-elements for the calorimetric system are indicated. By determining the real specific heat of cobalt and iron within long temperature ranges the calorimeter was tested. The specific heat  $c_p$  of cobalt changes suddenly within the temperature range 447-478°, iron shows a maximum of specific heat  $c_p$  within the temperature range 745-775° which corresponds to the transition from  $\alpha$ -to  $\beta$ -phase. The  $c_p$  determination of cobalt was compared to data obtained

Card 1/2

SOV/78-4-1-2/48

An Adiabatic Calorimeter Operating on the Principle of Continuous Heating

from publications and it was found that the maximum error of the adiabatic calorimeter is  $\pm 1\%$  at a heating rate of 0.3 to  $1.00^{\circ}/\text{min}$ . Heat capacity up to  $850^{\circ}$  can be measured by means of the new calorimeter. There are 7 figures, 2 tables, and 10 references.

SUBMITTED: October 7, 1957

Card 2/2

TROSHKINA, V.A.; KHOMYAKOV, K.G.

Heat capacity of the NiAl intermetallic compound after different thermal treatment. Zhur.neorg.khim. 5 no.11:2433-2435 '61.

(MIRA 14:10)

(Intermetallic compounds--Thermal properties)

ACCESSION NR: AP4014383

S/0189/64/000/001/0053/0055

AUTHORS: Kucherenko, L. A.; Troshkina, V. A.; Khomyakov, K. G.

TITLE: The effect of alloying on the hardness of NiAl and its solid solutions

SOURCE: Moscow. Univ. Vestn. Ser. II. Khim., no. 1, 1964, 53-55

TOPIC TAGS: alloy, nickel aluminum alloy, nickel aluminum manganese alloy, nickel aluminum iron alloy, nickel aluminum cobalt alloy, nickel aluminum copper alloy, solid solution, annealing hardness

ABSTRACT: Studies were conducted on the effect of small additions of Mn, Fe, Co, and Cu on the hardness of NiAl alloys, where the ratio of Ni:Al was either stoichiometric, or with a 1% excess of either Ni or Al. The alloying of the components was performed by a double melting in an atmosphere of argon, following which the samples were homogenized for 700 hours at temperatures to 1150C. The hardness of the specimens was tested on a TP type durometer, at a 5-kg load and a 30-second exposure, following annealing from 500, 600, 700, and 800C downwards to a 5% cooled alkali solution. Microstructural analysis revealed that all of the samples were monophasic, the effect of the additions being reflected only in granular size. It was found that the hardness of the stoichiometric NiAl was

Card 1/2

ACCESSION NR: AP4014383

practically constant up to 600C, with a slight dip within the 600-700C range, followed by substantial rise up to 800C. The addition of 1 or 3% of Mn, Fe, Co, and Cu generally resulted in lowering the hardness of NiAl, except for the 600-700C range. As to the NiAl alloys containing an excess of Ni or Al, it was observed that while alloying with Fe, Co, and Cu resulted in greater hardness (as compared with the alloyed stoichiometric NiAl samples) it still remained approximately at the original level, with some drop in the samples annealed at 800C. The alloying effect of Mn was an exception, the resulting alloys having a hardness superior to the samples alloyed with Fe, Co, and Cu. The alloys containing 3% Mn were superior to the ones containing 1% Mn. Orig. art. has: 1 chart and 1 table.

ASSOCIATION: Kafedra obshchey khimii, Moscow universitet (Department of General Chemistry, Moscow University)

SUBMITTED: 13Apr63

DATE ACQ: 02Mar64

ENCL: 00

SUB CODE: CH

NO REF Sov: 002

OTHER: 003

Card 2/2

TRET'YAKOV, Yu.D.; TROSHKINA, V.A.; KHOMYAKOV, K.G.

Adiabatic calorimeter working on the principle of continuous heating.  
Zhur.neorg.khim. 4 no.1:5-12 Ja '59. (MIRA 12:2)  
(Calorimeters)

TROSHKINA, V. A.

TROSHKINA, V. A. -- "Investigation of the Thermal Effects in the Formation of High-Coercive Alloys on an Iron-Nickel-Aluminum Base." Sub. 13 Jun 52, Moscow Order of Lenin State U imeni M. V. Lomonosov. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

KUCHERENKO, L.A.; TROSHKINA, V.A.; KHOMYAKOV, K.G.

Effect of alloying on the hardness of a NiAl compound and its  
solid solutions. Vest. Mosk. un. Ser. 2:Khim. 19 no.1:53-55 Ja-F  
'64. (MIRA 17:6)

1. Kafedra obshchey khimii Moskovskogo universiteta.

TROSHKINA, V.A.; KHOMYAKOV, K.G.

Study of the intermetallic compounds FeAl by the calorimetric method.  
Vest. Mosk. un. Ser. 2: Khim. 15 no.5:47-50 S-O '60.  
(MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet, kafedra obshchey khimi.  
(Iron compounds) (Aluminum compounds)

TROSHKINA, V. A.  
USSR/Chemistry

Card 1/1

Authors : Troshkina, V. A.; and Khomyakov, K. G.

Title : Structural changes in iron-nickel-aluminum alloys studied by the method of actual specific heat

Periodical : Zhur. Ob. Khim. 24, Ed. 5, 780 - 790, May 1954

Abstract : By studying the actual specific heat of annealed, hardened and high-coercive iron-nickel-aluminum alloys the authors established the structural changes in these alloys. The presence of three exothermal conversions was observed in the 300 - 450, 450 - 550, and 580 - 650° ranges. The conversion in the 580 - 650° range is connected with the magnetic hardening processes. The zone of dispersion hardening of Fe-Ni-Al-alloys was established at above 550°. The processeses accompanied by low and medium temperature effects do not directly participate in the magnetic hardening of these alloys. Twelve references; 1 USSR since 1957. Tables, graphs.

Institution : The M. V. Lomonosov State University, Moscow, USSR

Submitted : October 12, 1953

Evaluation B-31417

S/078/61/006/011/002/013  
B101/B147

AUTHORS: Troshkina, V. A., Khomyakov, K. G.

TITLE: Specific heat of the intermetallic compound NiAl after different thermal treatments

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 11, 1961, 2433- 2435

TEXT: The authors deal with the problem of energetic characterization of highly coercive intermetallic compounds on NiAl (FeAl) and CoAl basis. The specific heat of the compound NiAl was tested on two samples melted from the electrolytic metals in argon atmosphere. Sample 1 had a stoichiometric composition ( $68.6 \pm 0.5\%$  by weight of Ni), the second contained an excess of Al ( $67.7 \pm 0.5\%$  by weight of Ni) to study the influence of Al. The samples were heated at different temperatures (600 - 1300°C) and then quenched in ice water. The curve  $c_p = f(t)$  was

obtained by means of a calorimeter described by the authors in Zh. obshch. khimii, 24, 1954. Fig. 1 shows the results for sample 1. Sample 2 shows no essential differences. An exothermic effect takes place between 550 and 650°C. In consideration of roentgenographic data of I. Isaychev,

Card 1/02

Specific heat of the intermetallic...

S/078/61/006/011/002/013  
B101/B147

V. Miretskiy (Zh. tekhn. fiz., 10, 316 (1940)) it is assumed that above 600°C the lattice of NiAl undergoes partial disordering under formation of a defective structure. This behavior corresponds to that of isomorphous Fe-NiAl alloys. There are 2 figures and 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: F. C. Nix, F. E. Jaumot, Phys. Rev., 83 (1951).

SUBMITTED: April 19, 1960

Fig. 1. Dependence of the specific heat on temperature for sample No. 1 (68.6% by weight of Ni).

Legend: (a) after quenching from 1300°C; (b) after quenching from 1200°C; sample; (1)  $c_p$ , cal/g.deg.

Card 2/2

MAKHOVA, Yu.V.; TROSHKINA, Ye.S.

Results of the study of the layering and banding of Elbrus  
glaciers, based on spore-pollen analysis data. Inform.sbor.  
o rab.Geog.fak,Mosk.gos.un.po Mezhdunar.geofiz.godu no.9:126-  
138 '62. (MIRA 16:2)  
(Elbrus, Mount—Glaciers) (Elbrus, Mount—Palynology)

SAVEL'YEV, Boris Aleksandrovich; TROSHKINA, Ye.S., red.; GEORGIYEVA,  
G.I., tekhn. red.

[Formation, composition, and characteristics of the ice cover  
on bodies of sea and fresh water] Stroenie, sostav i svoistva  
ledianogo pokrova morskikh i presnykh vodоemov. Moskva, Izd-  
vo Mosk. univ., 1963. 540 p. (MIRA 16:7)  
(Ice on rivers, Lakes, etc.)